



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of:** Hilda E. Smith

**Serial No.:** 10/632,117

**Filed:** July 31, 2003

**For:** ENVIRONMENTALLY  
REGULATED GENES OF  
STREPTOCOCCUS SUIS

**Confirmation No.:** 5350

**Examiner:** J. Hines

**Group Art Unit:** 1645

**Attorney Docket No.:** 2183-6055US

**NOTICE OF EXPRESS MAILING**

Express Mail Mailing Label Number: EV96253885US

Date of Deposit with USPS: March 27, 2007

Person making Deposit: Cat Bratton

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO/SB/08 be considered by the Examiner and made of record. Copies of any cited foreign patents, publications, or pending unpublished U.S. applications are enclosed pursuant to 37 C.F.R. § 1.98(a)(2).

03/28/2007 HVUONG1 00000022 10632117

02 FC:1806

180.00 OP

Foreign Patent Documents

<u>Document No.</u>	<u>Publication Date</u>	<u>Patentee</u>
WO 98/19689 A	05-14-1998	SmithKline Beecham Corporation

Other Documents

COURTNEY et al., Cloning, Sequencing, and Expression of a Fibronectin/Fibrinogen-Binding Protein from Group A Streptococci, *Infection and Immunity*, Sept. 1994, pp. 3937-46, Vol. 62, No. 9.

DATABASE EMBL [Online] *Streptococcus pneumoniae* adherence and virulence protein A (pavA) gene, complete cds, 4 November 1999, XP002332859, retrieved from EBI accession no. EM\_PRO:AF181976, Database accession no. AF181976.

HOLMES et al., The pavA gene of *Streptococcus pneumoniae* encodes a fibronectin-binding protein that is essential for virulence, *Molecular Microbiology*, 2001, pp. 1395-1408, Vol. 41, No. 6.

DATABASE EMBL [Online], *S.gordonii* partial aldB gene, cshA gene & fbpA gene, XP002332860 retrieved from EBI accession no. EM\_PRO:SGSCHAG, Database accession no. X65164.

CHRISTIE et al., Expression of fibronectin-binding protein FbpA modulates adhesion in *Streptococcus gordonii*, *Microbiology*, 2002, pp. 1615-25, Vol. 148.

DE GREEFF et al., Contribution of Fibronectin-Binding Protein to Pathogenesis of *Streptococcus suis* Serotype 2, *Infection and Immunity*, Mar. 2002, pp. 1319-25, Vol. 70, No. 3.  
European Search Report, EP 02 71 1531 dated June 22, 2005.

ELLIS, R.W. (Chapter 29 of "VACCINES" Plotkin, S.A. et al. (eds) published by W. B. Saunders company (Philadelphia) in 1988, especially P. 571.

HERBERT et al eds, *The Dictionary of Immunology*, Academic Press, 1995.

GOTTSCHALK et al., *Journal of Clinical Microbiology*, December 1999, pp. 4242, Vol. 37, No. 12.

SEGURA et al., *FEMS Immunology and Medical Microbiology*, 1998, pp. 189-95, Vol. 12.

Serial No.: 10/632,117

REAMS et al., J. Vet. Diagn Invest, 1996, pp. 119-21, Vol. 8.

STAATS et al., Veterinary Research Communications, 1997, pp. 381-407, Vol. 21.

BRAZEAU et al., Microbiology, 1996, pp. 119-21, Vol. 8.

This Supplemental Information Disclosure Statement is filed after the mailing date of the first Office Action on the merits.

The fee pursuant to 37 C.F.R. § 1.17(p) is enclosed.

Respectfully submitted,



Daniel J. Morath, Ph.D.

Registration No. 55,896

Attorney for Applicant(s)

TRASKBRITT, P.C.

P.O. Box 2550

Salt Lake City, Utah 84110-2550

Telephone: 801-532-1922

Date: March 27, 2007

DJM/bv

Enclosures: Form PTO/SB/08

Cited Non-U.S. Patent Documents

Check in the amount of \$180.00

Document in ProLaw

Substitute for PRI 1449 A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

Sheet	1	of	2
-------	---	----	---

**Complete if Known**

Application Number	10/632,117
Filing Date	July 31, 2003
First Named Inventor	Hilda E. Smith
Group Art Unit	1645
Examiner Name	J. Hines
Attorney Docket Number	2183-6055US

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

2

of

2

**Complete if Known**

Application Number	10/632,117
Filing Date	July 31, 2003
First Named Inventor	Hilda E. Smith
Group Art Unit	1645
Examiner Name	J. Hines
Attorney Docket Number	2183-6055US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		COURTNEY et al., Cloning, Sequencing, and Expression of a Fibronectin/Fibrinogen-Binding Protein from Group A Streptococci, Infection and Immunity, Sept. 1994, pp. 3937-46, Vol. 62, No. 9.	
		DATABASE EMBL [Online], Streptococcus pneumoniae adherence and virulence protein A (pavA) gene, complete cds, 4 November 1999, XP002332859, retrieved from EBI accession no. EM_PRO:AF181976, Database accession no. AF181976.	
		HOLMES et al., The pavA gene of Streptococcus pneumoniae encodes a fibronectin-binding protein that is essential for virulence, Molecular Microbiology, 2001, pp. 1395-1408, Vol. 41, No. 6.	
		DATABASE EMBL [Online], S.gordonii partial aldB gene, cshA gene & fbpA gene, XP002332860 retrieved from EBI accession no. EM_PRO:SGSCHAG, Database accession no. X65164.	
		CHRISTIE et al., Expression of fibronectin-binding protein FbpA modulates adhesion in Streptococcus gordonii, Microbiology, 2002, pp. 1615-25, Vol. 148.	
		DE GREEFF et al., Contribution of Fibronectin-Binding Protein to Pathogenesis of Streptococcus suis Serotype 2, Infection and Immunity, Mar. 2002, pp. 1319-25, Vol. 70, No. 3.	
		European Search Report, EP 02 71 1531 dated June 22, 2005.	
		ELLIS, R.W. (Chapter 29 of "VACCINES" Plotkin, S.A. et al. (eds) published by W. B. Saunders company (philadelphia) in 1988, especially P. 571.	
		HERBERT et al eds, The Dictionary of Immunology, Academic Press, 1995.	
		GOTTSCALK et al., Journal of Clinical Microbiology, December 1999, pp. 4242, Vol. 37, No. 12.	
		SEGURA et al., FEMS Immunology and Medical Microbiology, 1998, pp. 189-95, Vol. 12.	
		REAMS et al., J. Vet. Diagn Invest, 1996, pp. 119-21, Vol. 8.	
		STAATS et al., Veterinary Research Communications, 1997, pp. 381-407, Vol. 21.	
		BRAZEAU et al., Microbiology, 1996, pp. 119-21, Vol. 8.	

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.